

ABSTRACT OF THE DISCLOSURE

A magnesium-based semi-solid alloy having improved creep resistance, ultimate tensile strength, tensile yield strength and average % elongation at 150°C. Castings are cast from a semi-solid alloy slurry comprising, in weight percent, between about 3 to 7% Aluminum, between about 0.5% and 3% Strontium with the balance being magnesium except for impurities commonly found in magnesium alloys. The semi-solid alloy slurry includes up to 5% or up to about 20% solid fraction by weight.

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